

EP0703618

Publication Title:

Method for fabricating a three dimensional integrated circuit

Abstract:

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The method involves preparing a first substrate (1) contg. one or more preprocessed component planes (3) on a first side with independent adjacent components or circuits forming a component stack. A second substrate (7) is prepared with component planes (9) with components, circuits and stacks on a second side. These components, circuits and stacks are then tested to distinguish functional ones from non-functional ones. The second substrate is connected to an auxiliary substrate (13) on the second side and then thinned or removed on the opposite side. The auxiliary substrate with the connected components is divided into individual chips, each contg. functional or non-functional components, stacks or circuits. Chips carrying functioning items are applied adjacent to each other with some adjustment to the first side of the first substrate. The auxiliary substrate is removed and electrical contacts made between the items on the applied chips and those already on the first substrate.

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